International Application No

According to international Patent Classification (IPC) or to both national classification and IPC 8. FIELDS SEARCHED Documentation searched (classification system followed by classification symbols) IPC 7 E018 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search forms used) EPO-Internal, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Classion of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X CH 40 591 A (HUEHNE, AUGUST) 1 August 1908 (1908-08-01) the whole document X AT 410 226 B (RIESSBERGER KLAUS DIPL. ING. DR. TECHN) 25 March 2003 (2003-03-25) the whole document X US 1 020 973 A (W.W.PRISHOLM) 26 March 1912 (1912-03-26) page 1, 1ine 54 - 1ine 90; figures 1-4 US 1 795 817 A (YEOMANS WALLACE C) 10 March 1931 (1931-03-10) page 2, 1 ine 55 - 1 ine 60; figures 1,6,7 -/ X Further documents are listed in the continuation of box C. X Patent family members are listed in annex. **Gocument defining the general state of the art which is not relevant appropriate of the principle of theory underlying the international lifting data of the international lifti		INTERNATIONAL SEARCH REPOR		PCT/AT2005/000046
Minimum documentation searched (classification system followed by classification symbols) TPC 7 E018 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base end, where practical, search forms used) EPO-Internal , WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X CH 40 591 A (HUEHNE, AUGUST) 1 August 1908 (1908–08–01) the whole document X AT 410 226 8 (RIESSBERGER KLAUS DIPL. ING. DR. TECHN) 25 harch 2003 (2003–03–25) the whole document X US 1 020 973 A (W.W. PRISHOLM) 26 March 1912 (1912–03–26) page 1, line 54 - line 90; figures 1–4 A US 1 795 817 A (YEOMANS WALLACE C) 10 March 1931 (1931–03–10) page 2, line 55 - line 60; figures 1,6,7 -/ X Petent family members are listed in annex. **Special categories of clied documents: **A decument defining the general state of the art which is not confident defining the professional defining date or which is defined to setsilate in the part which is end or administration of other means of the defining date or which is defined to setsilate in the part which is end or administration or other means of particular relevance. The claimed invention of other means of particular prevance, the claimed in mention of other means of particular prevance, the claimed in mention of other means of particular prevance, the claimed in mention of other means of particular prevance, the claimed in mention of other means of particular prevance, the claimed in mention of other means of particular prevance, the claimed in mention of other means of particular prevance, the claimed in mention of other means of particular prevance, the claimed in mention of other means of particular prevance, the claimed in mention of other means of particular prevance, the claimed in mention of other means of particular prevance,	A. CLASSI IPC 7	FICATION OF SUBJECT MATTER E01B3/28		
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EPO-Internal, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X	Electronic d	ata base consulted during the international search (name of data ba	ise and, where practical, s	earch terms used)
Category* Citation of document, with indication, where appropriate, of the relevant passages CH 40 591 A (HUEHNE, AUGUST) 1 August 1908 (1908–08–01) the whole document X AT 410 226 B (RIESSBERGER KLAUS DIPL.ING. DR.TECHN) 25 March 2003 (2003–03–25) the whole document X US 1 020 973 A (W.W.PRISHOLM) 26 March 1912 (1912–03–26) page 1, line 54 – line 90; figures 1–4 A US 1 795 817 A (YEOMANS WALLACE C) 10 March 1931 (1931–03–10) page 2, line 55 – line 60; figures 1,6,7 —/— X Patent family members are listed in annex. **Special categories of cited documents: **A' document delining the general state of the art which is not considered to be of particular relevance: **C' earlier document but published on or after the international liling date **Initing date **C' earlier document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) **O' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) **O' document published prior in the international liling date but expriority date and not in conflict with the application but origing the considered novel or cannot be considered to involve an inventive step when the document is taken alone visible to other special reason (as specified) **O' document published prior to the international liling date but learned to particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone with the control of the special reason (as specified) **O' document published prior to the international liling date but learned to priority date and not in conflict with the application but not conflict with the application but cannot be considered to involve an inventive step when the document is taken alone with the conflict of involve an inventive step when the document is taken alone with the later than the priority dat				
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*Special categories of cited documents: *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filling date *It* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filling date but later than the priority date claimed *C* document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention invention or particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined to invention or more other such document is combined to inven			-/	
A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T later document to published after the international ming date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered to invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *A* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.	X Furt	her documents are listed in the continuation of box C.	X Patent family me	embers are listed in annex.
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	later t			

Name and mailing address of the ISA

5 October 2005

European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 28 OCT 2005

Authorized officer

Movadat, R

International Application No
PCT/AT2005/000046

		1 C17 K120037 000040
Category °	tion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 930 522 C (GESSNER MAX DIPLING. DIPLING) 18 July 1955 (1955-07-18) page 2, line 61 - line 68; figure 3	12-14
x	WO 01/79610 A (COMPOSITE DAMPING MATERIAL N.V. IN HET KORT "CDM"; NIGTEVECHT BEHEER B) 25 October 2001 (2001-10-25) page 3, line 7 - line 30; figures 1-3	17-26
	DE 296 11 823 U1 (DEUTSCHE ASPHALT GMBH, 63263 NEU-ISENBURG, DE) 17 October 1996 (1996-10-17) figures 1-5	17-21,26
4	DE 199 57 223 A1 (PFLEIDERER INFRASTRUKTURTECHNIK GMBH & CO. KG) 21 June 2001 (2001-06-21) page 3, paragraph 3; figures 3a-3c	17-26
		·
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International application No.

PCT/AT2005/000046

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This inte	rnational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
See	supplemental sheet
1. X	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remarl	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1992)

International application No. PCT/AT2005/000046

The International Searching Authority has found that the international application contains multiple (groups of) inventions, as follows:

1. Claims: 1-16

Tie with receiving element being disposed offset.

2. Claims: 17-26

Tie with stepped longitudinal beams.

Form PCT/ISA/210

1	Interional Application No.	
	PCT/AT2005/000046	

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
CH 40591	A	01-08-1908	NONE		,	
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DE 19957223	A1	21-06-2001	NONE			

Inter Tonales Aktenzeichen
PCT/AT2005/000046

IPK 7	E01B3/28		
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Nach der In	ternationalen Patentklassifikation (IPK) oder nach der nationalen Kla	ssifikation und der IPK	
	RCHIERTE GEBIETE		
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Recherchie	rte aber nicht zum Mindestprüfstoff gehörende Veröffentlichungen, so	oweit diese unter die recherchierten Gebiete	afallen
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Kategorie*	Bezeichnung der Veröffentlichung, soweit erforderlich unter Angab	e der in Betracht kommenden Teile	Betr. Anspruch Nr.
X	CH 40 591 A (HUEHNE, AUGUST)		1-15
	1. August 1908 (1908-08-01)		
	das ganze Dokument	•	
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	DR.TECHN) 25. März 2003 (2003-03-	-25)	9-11,15,
	das ganze Dokument		16
x	US 1 020 973 A (W.W.PRISHOLM)		1-11
^	26. März 1912 (1912-03-26)		
	Seite 1, Zeile 54 - Zeile 90; Abb	oildungen	
	1-4	•	
Α	US 1 795 817 A (YEOMANS WALLACE O	()	5
	10. März 1931 (1931-03-10) Seite 2, Zeile 55 - Zeile 60; Abb	si I dungan	
	1,6,7	raungen	
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	ere Veröffentlichungen sind der Fortsetzung von Feld C zu ehmen	X Siehe Anhang Patentfamilie	
) Kategorien von angegebenen Veröffentlichungen : ntlichung, die den allgemeinen Stand der Technik definiert,	*T* Spätere Veröffentlichung, die nach dem oder dem Prioritätsdatum veröffentlich	t worden ist und mit der
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ausgef	ührt)	kann nicht als auf erfinderischer Tätigk werden, wenn die Veröffentlichung mit	leit beruneng betrachtet
eine B	ntlichung, die sich auf eine mündliche Offenbarung, enutzung, eine Ausstellung oder andere Maßnahmen bezieht	Veröffentlichungen dieser Kategorie in diese Verbindung für einen Fachmann	Verbindung gebracht wird und
dem be	ntlichung, die vor dem internationalen. Anmeldedatum, aber nach eanspruchten Prioritätsdatum veröffentlicht worden ist	*&* Veröffentlichung, die Mitglied derselber	
Datum des A	Abschlusses der internationalen Recherche	Absendedatum des internationalen Re	
. 5	. Oktober 2005	28. 10.	2005
Name und P	ostanschrift der Internationalen Recherchenbehörde	Bevollmächtigter Bediensteter	
	Europäisches Patentamt, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk		
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fex: (+31-70) 340-3016	Movadat, R	

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Inter sonales Aktenzeichen	
PCT/AT2005/000046	

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C.(Fortsetz	ung) ALS WESENTLICH ANGESEHENE UNTERLAGEN		
Kategorie*	Bezeichnung der Veröffentlichung, soweit erforderlich unter Angabe der in Betracht komm	enden Teile	Betr. Anspruch Nr.
A	DE 930 522 C (GESSNER MAX DIPLING. DIPLING) 18. Juli 1955 (1955-07-18) Seite 2, Zeile 61 - Zeile 68; Abbildung 3		12-14
X	WO 01/79610 A (COMPOSITE DAMPING MATERIAL N.V. IN HET KORT "CDM"; NIGTEVECHT BEHEER B) 25. Oktober 2001 (2001-10-25) Seite 3, Zeile 7 - Zeile 30; Abbildungen 1-3	·	17-26
X	DE 296 11 823 U1 (DEUTSCHE ASPHALT GMBH, 63263 NEU-ISENBURG, DE) 17. Oktober 1996 (1996-10-17) Abbildungen 1-5	·	17-21,26
A	DE 199 57 223 A1 (PFLEIDERER INFRASTRUKTURTECHNIK GMBH & CO. KG) 21. Juni 2001 (2001-06-21) Seite 3, Absatz 3; Abbildungen 3a-3c		17-26
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Feld II Bemerkungen zu den Ansprüchen, die sich als nicht recherchierbar erwiesen haben (Fortsetzung von Punkt 2 auf Blatt 1
Gemäß Artikel 17(2)a) wurde aus folgenden Gründen für bestimmte Ansprüche kein Recherchenbericht erstellt:
Ansprüche Nr. weil sie sich auf Gegenstände beziehen, zu deren Recherche die Behörde nicht verpflichtet ist, nämlich
2. Ansprüche Nr. weil sie sich auf Teile der internationalen Anmeldung beziehen, die den vorgeschriebenen Anforderungen so wenig entsprechen, daß eine sinnvolle internationale Recherche nicht durchgeführt werden kann, nämlich
3. Ansprüche Nr. weil es sich dabei um abhängige Ansprüche handelt, die nicht entsprechend Satz 2 und 3 der Regel 6.4 a) abgefaßt sind.
Feld III Bemerkungen bei mangelnder Einheitlichkeit der Erfindung (Fortsetzung von Punkt 3 auf Blatt 1)
Die internationale Recherchenbehörde hat festgestellt, daß diese internationale Anmeldung mehrere Erfindungen enthält:
siehe Zusatzblatt
Da der Anmelder alle erforderlichen zusätzlichen Recherchengebühren rechtzeitig entrichtet hat, erstreckt sich dieser internationale Recherchenbericht auf alle recherchierbaren Ansprüche.
2. Da für alle recherchierbaren Ansprüche die Recherche ohne einen Arbeitsaufwand durchgeführt werden konnte, der eine zusätzliche Recherchengebühr gerechtferligt hätte, hat die Behörde nicht zur Zahlung einer solchen Gebühr aufgefordert.
Da der Anmelder nur einige der erforderlichen zusätzlichen Recherchengebühren rechtzeltig entrichtet hat, erstreckt sich dieser internationale Recherchenbericht nur auf die Ansprüche, für die Gebühren entrichtet worden sind, nämlich auf die Ansprüche Nr.
Der Anmelder hat die erforderlichen zusätzlichen Recherchengebühren nicht rechtzeitig entrichtet. Der internationale Recherchenbericht beschränkt sich daher auf die in den Ansprüchen zuerst erwähnte Erfindung; diese ist in folgenden Ansprüchen erfaßt:
Bemerkungen hinsichtlich eines Widerspruchs Die zusätzlichen Gebühren wurden vom Anmelder unter Widerspruch gezahlt. X Die Zahlung zusätzlicher Recherchengebühren erfolgte ohne Widerspruch.

WEITERE ANGABEN

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Die internationale Recherchenbehörde hat festgestellt, dass diese internationale Anmeldung mehrere (Gruppen von) Erfindungen enthält, nämlich:

1. Ansprüche: 1-16

Schwelle mit versetzt angeordneter Aufnahmeeinrichtung

2. Ansprüche: 17-26

Schwelle mit abgestuft ausgebildeten Längsträger

Internationales Aktenzeichen
PCT/AT2005/000046

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